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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,898	06/26/2003	Paul W. Lusher	83043	8380
7	590 02/01/2005	EXAMINER		
Matthew J. Br		FRECH, KARL D		
Office of Coun	sel (Patents) (CODE X			
Naval Surface Warfare Center			ART UNIT	PAPER NUMBER
17320 Dahlgre		2876		
Dahlgren, VA 22448-5100			DATE MAILED: 02/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		∠ ₹
	Application No.	Applicant(s)
	10/609,898	LUSHER ET AL.
Office Action Summary	Examiner	Art Unit
	Karl D Frech	2876
The MAILING DATE of this communicati n app Period for Reply	pears on the c ver sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d vill apply and will expire SIX (6) MONTHS fro , cause the application to become ABANDO!	timely filed ays will be considered timely. In the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, p	
Disposition of Claims	•	
4) ⊠ Claim(s) <u>1-19</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,5,6,9,14-16 and 19</u> is/are rejected 7) ⊠ Claim(s) <u>4,7,8,10-13,17 and 18</u> is/are objected 8) □ Claim(s) are subject to restriction and/or	wn from consideration. d. to.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 26 June 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	D⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. S ion is required if the drawing(s) is o	tee 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ation No ved in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date 6/26/03.

5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3,5-6,9,14-16,19-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Sefcik et al US 2003/0185420 A1. Sefcik discloses a target detection algorithm (kernel) in a processing device that may be used in real-time [0041]. It is disclosed that the data and target information determined from the processor is output to a human operator (external input), or to a guidance control system for a missile or other weapon system, to another processor or fire control computer [0042], i.e. kernel is software component and gun mount control as in current claims 9. A display is also disclosed [0042].
- 3. Claims 4,7,8,10-13,17,18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to teach or fairly suggest to one of ordinary skill in the art the "two-dimensional <u>and</u> three-dimensional sensor track data, indirect target data, sensor status data, <u>and</u> status data, <u>and</u> target number selection <u>and</u> reassignments" as

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in claim 4; the software component accepts as input "engage controls, system doctrine, and gun control operator console input controls and data values" as in claim 7; the software component provides as output "engagement status, engagement order responses, overall system status, and controls of peripheral equipment" as in claim 8; wherein the gun control mount control interface software component accepts as input "gun position and status, gun firing status, and gun ammunition inventory" as in claim 10; wherein the gun control mount control interface software component provides as output "deck-reference gun orders and rates, gun mount controls, fire order controls, ammunition controls, and selection orders" as in claim 11; the ownership data interface software component providing "access into the fire control kernel for ownership state and attitude data needed for general fire control processing" as in claims 12,13,17 & 18.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl D Frech whose telephone number is (571) 272-2390. The examiner can normally be reached on maxi-flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl D Frech

Primary Examiner Art Unit 2876
